

Experiment	Figures	Reference	Strain number	Strain	Plasmid-gene	Comments
NepR start codon experiments	S2	Santos et al., 2001	FC1101	<i>E. coli</i> Top10	pPR01T	Empty vector (AmpR, Chlor).
		This work	FC2207	<i>E. coli</i> Top10	pPR01T-nepRFL	<i>NepR::lacZ</i> translational fusion, starting at start codon 1.
		This work	FC2208	CB15	pPR01T-nepRFL	<i>NepR::lacZ</i> translational fusion, starting at start codon 1.
		This work	FC2209	<i>E. coli</i> Top10	pPR01T-nepRSC2	<i>NepR::lacZ</i> translational fusion, starting at start codon 2.
		This work	FC2210	CB15	pPR01T-nepRSC2	<i>NepR::lacZ</i> translational fusion, starting at start codon 2.
		This work	FC2211	<i>E. coli</i> Top10	pPR01T-nepRSC3	<i>NepR::lacZ</i> translational fusion, starting at start codon 3.
		This work	FC2212	CB15	pPR01T-nepRSC3	<i>NepR::lacZ</i> translational fusion, starting at start codon 3.
		This work	FC2213	<i>E. coli</i> Top10	pPR01T-nepR1(23)	<i>NepR::lacZ</i> translational fusion, start codons 2 and 3 mutated to Ala.
		This work	FC2214	CB15	pPR01T-nepR1(23)	<i>NepR::lacZ</i> translational fusion, start codons 2 and 3 mutated to Ala.
		This work	FC2215	<i>E. coli</i> Top10	pPR01T-nepR1(23)	<i>NepR::lacZ</i> translational fusion, start codons 1 and 3 mutated to Ala.
		This work	FC2216	CB15	pPR01T-nepR1(23)	<i>NepR::lacZ</i> translational fusion, start codons 1 and 3 mutated to Ala.
		This work	FC2217	<i>E. coli</i> Top10	pPR01T-nepR1(23)	<i>NepR::lacZ</i> translational fusion, start codons 1 and 2 mutated to Ala.
		This work	FC2218	CB15	pPR01T-nepR1(23)	<i>NepR::lacZ</i> translational fusion, start codons 1 and 2 mutated to Ala.
		This work	FC2366	<i>E. coli</i> Top10	pPR01T-nepR123	<i>NepR::lacZ</i> translational fusion, start codons 1, 2 and 3 mutated to Ala.
		Bacterial Two-Hybrid experiments	2 and S3	Karimova et al., 1998	FC253	<i>E. coli</i> Top10
Karimova et al., 1998	FC254			<i>E. coli</i> Top10	pJT18c-zip	Leucine zipper positive control for BTH assay.
This work	FC2221			<i>E. coli</i> Top10	pJT18c-nepRFL (M1-E68)	Used to express the different T18-NepR alleles for BTH assay.
This work	FC2222			<i>E. coli</i> Top10	pJT18c-nepRsc3 (M8-E68)	
This work	FC2223			<i>E. coli</i> Top10	pJT18c-nepRsc3 (M14-E68)	
This work	FC2224			<i>E. coli</i> Top10	pJT18c-nepRΔFR1 (Q31-E68)	
This work	FC2225			<i>E. coli</i> Top10	pJT18c-nepRΔFR2 (M1-E62)	
This work	FC2238			<i>E. coli</i> Top10	pJT18c-nepRSV (Q31-E62)	
This work	FC2312			<i>E. coli</i> Top10	pJT18c-nepRpoly-A	
This work	FC2339			<i>E. coli</i> Top10	pJT18c-linker-nepR	
This work	FC2340			<i>E. coli</i> Top10	pJT18c-phyR	Used to express the different NepR partners (T18 tagged) for BTH assay.
This work	FC2341			<i>E. coli</i> Top10	pJT18c-phyR-SL	
This work	FC2342			<i>E. coli</i> Top10	pJT18c-sigT	
Karimova et al., 1998	FC255			<i>E. coli</i> Top10	pKT25	Empty vector control for BTH (KanR).
Karimova et al., 1998	FC256			<i>E. coli</i> Top10	pKT25-zip	Leucine zipper positive control for BTH assay.
This work	FC2232	<i>E. coli</i> Top10	pKT25-phyR	Used to express the different NepR partners (T25 tagged) for BTH assay.		
This work	FC2313	<i>E. coli</i> Top10	pKT25-phyRD1924 (allele amplified from strain FC1211 (Herrou et al. 2010))			
This work	FC2233	<i>E. coli</i> Top10	pKT25-phyR-SL			
This work	FC2234	<i>E. coli</i> Top10	pKT25-sigT			
This work	FC2343	<i>E. coli</i> Top10	pKT25-nepRFL			
This work	FC2344	<i>E. coli</i> Top10	pKT25-nepRSV	Used to express the different T25-NepR alleles for BTH assay.		
β-galactosidase activities - Caulobacter Stress assays	3 and S4	M.R.K. Alley	FC55	<i>E. coli</i> Top10	pNPTS138	Empty vector (KanR).
		This work	FC2235	<i>E. coli</i> Top10	pNPTS138- <i>ΔnepRsigT</i>	Used for allelic replacement in <i>Caulobacter</i> .
		Herrou et al., 2012	FC634	<i>E. coli</i> Top10	pRKLac290-PsigU	<i>PsigU::lacZ</i> translational fusion (TetR).
		Thanbichler et al., 2007	FC414	<i>E. coli</i> Top10	pMT464	Empty vector (KanR, Xylose inducible).
		A. Fiebig	FC2251	<i>E. coli</i> Top10	pMT464-sigT	Used for overexpression of <i>σT</i> in <i>Caulobacter</i> .
		Thanbichler et al., 2007	MTC54420	<i>E. coli</i> Top10	pMT806	Empty vector (CamR, Vanilate inducible).
		This work	FC2236	<i>E. coli</i> Top10	pMT806-nepRFL	Used for overexpression of NepR in <i>Caulobacter</i> .
		This work	FC2237	<i>E. coli</i> Top10	pMT806-nepRSV	Used for overexpression of NepR in <i>Caulobacter</i> .
		This work	FC2219	<i>E. coli</i> Top10	pMT806-HA-nepRFL	Used for overexpression of N-terminal HA tagged NepR in <i>Caulobacter</i> .
		This work	FC2230	<i>E. coli</i> Top10	pMT806-HA-nepRSV	Used for overexpression of N-terminal HA tagged NepR in <i>Caulobacter</i> .
		This work	FC2252	<i>E. coli</i> Top10	pMT806-nepRFL-HA	Used for overexpression of C-terminal HA tagged NepR in <i>Caulobacter</i> .
		This work	FC2254	<i>E. coli</i> Top10	pMT806-nepRSV-HA	Used for overexpression of C-terminal HA tagged NepR in <i>Caulobacter</i> .
		Poindexter, 1964	FC19	CB15	-	Wild type <i>Caulobacter</i> .
		This work	FC2239	CB15 <i>ΔnepRsigT</i>	-	CB15 deleted for <i>nepRsigT</i> .
		σT/NepR interaction experiments	4 and S6	Life Technologies	FC929	<i>E. coli</i> Top10
Novagen	FC803			<i>E. coli</i> Rosetta (DE3) pLysS	-	Expression strain.
This work	FC274			<i>E. coli</i> Top10	pETDuel-1	Empty plasmid (AmpR).
This work	FC1097			<i>E. coli</i> Top10	pETDuel-sigT	Used to express His- <i>σT</i> .
This work	FC2363			<i>E. coli</i> Rosetta (DE3) pLysS	pETDuel-sigT	Used to express His- <i>σT</i> .
This work	FC1104			<i>E. coli</i> Top10	pETDuel-sigT-nepRFL	Used to coexpress His- <i>σT</i> with NepR.
This work	FC2350			<i>E. coli</i> Rosetta (DE3) pLysS	pETDuel-sigT-nepRFL	Used to coexpress His- <i>σT</i> with NepR.
This work	FC2351			<i>E. coli</i> Top10	pETDuel-sigT-nepRSV	Used to coexpress His- <i>σT</i> with NepR.
This work	FC2352			<i>E. coli</i> Rosetta (DE3) pLysS	pETDuel-sigT-nepRSV	Used to coexpress His- <i>σT</i> with NepR.
This work	FC2357			<i>E. coli</i> Top10	pETDuel-sigT-MBPnepRFL	Used to coexpress His- <i>σT</i> with MBP-NepR.
This work	FC2358			<i>E. coli</i> Rosetta (DE3) pLysS	pETDuel-sigT-MBPnepRFL	Used to coexpress His- <i>σT</i> with MBP-NepR.
This work	FC2359			<i>E. coli</i> Top10	pETDuel-sigT-MBPnepRSV	Used to coexpress His- <i>σT</i> with MBP-NepR.
This work	FC2360			<i>E. coli</i> Rosetta (DE3) pLysS	pETDuel-sigT-MBPnepRSV	Used to coexpress His- <i>σT</i> with MBP-NepR.
This work	FC2364			<i>E. coli</i> Top10	pETDuel-sigT-MBP	Used to coexpress His- <i>σT</i> with MBP.
This work	FC2365			<i>E. coli</i> Rosetta (DE3) pLysS	pETDuel-sigT-MBP	Used to coexpress His- <i>σT</i> with MBP.
SPR and phosphorylation experiments	5 and S5	New England Biolabs	FC1522	<i>E. coli</i> Rosetta (DE3) pLysS	pMalc2g	Empty vector (AmpR). Used to overexpress MBP tagged proteins for SPR and phosphorylation experiments.
		Herrou et al., 2012	FC1524	<i>E. coli</i> Rosetta (DE3) pLysS	pMalc2g-nepRFL	Used to overexpress MBP-NepR for SPR and phosphorylation experiments.
		This work	FC2245	<i>E. coli</i> Top10	pMalc2g-nepRSV	Used to overexpress MBP-NepR for SPR and phosphorylation experiments.
		This work	FC2246	<i>E. coli</i> Rosetta (DE3) pLysS	pMalc2g-nepRSV	Used to overexpress MBP-NepR for SPR and phosphorylation experiments.
		Novagen	FC155	<i>E. coli</i> Top10	pET28c	Empty plasmid (KanR).
		Herrou et al., 2010	FC1536	<i>E. coli</i> Rosetta (DE3) pLysS	pET28c-phyR	Used to overexpress His tagged PhyR versions for SPR and phosphorylation experiments.
		Herrou et al., 2012	FC1546	<i>E. coli</i> Rosetta (DE3) pLysS	pET28c-phyR-SL	Used to overexpress His tagged PhyR versions for SPR and phosphorylation experiments.
This work	FC2361	<i>E. coli</i> Top10	pET28c-phyR(D192A)	Used to overexpress His tagged PhyR(D192) mutant protein for phosphorylation assay.		
This work	FC2361	<i>E. coli</i> Rosetta (DE3) pLysS	pET28c-phyR(D192A)	Used to overexpress His tagged PhyR(D192) mutant protein for phosphorylation assay.		